

Eco Mark Product Category No.143

“Shoes and Footwear Version 1.2” Certification Criteria

-Applicable Scope-

- A. Leather shoes
- B. Rubber, plastic, and fabric shoes
- C. Other footwear (Japanese footwear, slippers, sandals, etc.)

Established	December 1, 2008	Japan Environment Association
Revised	March 1, 2011	Eco Mark Office
Term of validity	November 30, 2015	

NOTE: This document is a translation of the criteria written in Japanese. In the event of dispute, the original document should be taken as authoritative.

Eco Mark Product Category No. 143

“Shoes and Footwear Version 1.2” Certification Criteria

A. Leather Shoes

Japan Environment Association
Eco Mark Office

1. Purpose of Establishing Criteria

Omitted

2. Applicable Scope

Of “footwear” based on the “Standard commodity classification for Japan,” shoes with uppers made of leather (including high and low boots).

3. Terminology

Omitted

4. Certification Criteria and Procedures

To show conformance to the individual criteria item, the respective Attached Certificates shall be submitted.

In addition, for a leather material certified by JES label, which is administered by Japan Leather and Leather Goods Industries Association, submission of a copy of a JES label certificate can replace the certification procedures of 4-1. (1) and (11) to (16) below, among appropriate reference items.

4-1. Environmental Criteria and Certification Procedures

4-1-1. Common Environmental Criteria and Certification Procedures

- (1) Leather material used for products shall be calf and cow leather, pig leather, sheep leather, horse leather or goat leather, and at the same time, by-products of meat (foods).

[Certificate Procedure]

A certificate for material used that stipulates the material used for upper, lining, sock lining (insole for products without sock lining), and outsole shall be submitted. In addition, for leather material, attach the material supply certificate which tanners issue.

- (2) The peel strength of the outsole shall conform to the reference value prescribed by JIS S5050 “Leather Shoes” or other official or in-house criteria. In addition, the wear performance of the outsole shall conform to the reference values of Table 1 or those prescribed by other official or in-house criteria. However, the wear performance of the outsole shall not apply to outsoles made of natural rubber and leather.

Table 1 Wear performance criteria

	General exercise	School	Casual	Men's town	Cold place	Women's town	Room	Test method
Density $\geq 0.9\text{g}/\text{cm}^3$	not more than 200 mm^3	not more than 250 mm^3	not more than 200 mm^3	not more than 350 mm^3	not more than 200 mm^3	not more than 400 mm^3	not more than 450 mm^3	ISO 20871
Density $< 0.9\text{g}/\text{cm}^3$	not more than 150 mg	not more than 170 mg	not more than 150 mg	not more than 200 mg	not more than 150	not more than 250 mg	not more than 300 m	ISO 20871

[Certification Procedure]

The test results that indicate conformance to this item shall be submitted. In the event that the test of outsole peel strength and wear performance is not conducted in conformity to JIS S5050 or the test method of Table 1, present other official or in-house standard values shall be presented and test results evidencing the product conforms to them shall be submitted.

- (3) Formaldehyde of adhesives used for products shall have any of the diffusion speed of $5\text{ }\mu\text{g}/(\text{m}^2\cdot\text{h})$ or less, the amount of emission of $0.3\text{ mg}/\text{l}$ or less, or less than or equal to the reference value of Table 6 of Section 2-1-2 (19). However, this item shall not apply to adhesives that do not use material that diffuses formaldehyde.

[Certification Procedure]

All the adhesives used for the product shall be stated in the Certificate for Adhesives Used and be submitted. In addition, the test results of the diffusion speed by JIS A 1901, test results of the amount of emission by JIS A 1460, and test results prescribed in Ministerial Ordinance No. 34 of Ministry of Health, Labour, and Welfare, or a certificate such as a certification, MSDS, etc. stating that the adhesives contained in the product are less than or equal to the reference value (Class F☆☆☆☆, etc.) shall be submitted. For the

adhesives to which any material that diffuses formaldehyde is not added, a certificate issued by the adhesive manufacturer or the applicant stating that no such material is added shall be submitted.

- (4) In the event that water-based adhesives are used, the safety concerning antiseptics shall have been confirmed.

[Certification Procedure]

For water-based adhesives, a certificate as to the addition of antiseptics, which is issued by the adhesive manufacturer or the applicant shall be submitted. With respect to the antiseptics, a certificate such as MSDS, etc. and CAS registration No. that indicate the safety of the antiseptics shall be submitted.

- (5) Products that use natural rubber or metal (clasps, fasteners, ornament portions, etc., including plating) shall have information on latex allergy and metal allergy and type of the metal used stipulated on any of product hangtags, operating instructions, brochures, etc. However, if they are used in a part that rarely contacts a human body and from which an allergic component is less likely to leak due to perspiration and to contact a human body for a long period of time, either or both of a name of material and data on allergy shall be indicated to provide the information to those with allergy.

[Certification Procedure]

The relevant part that contains the above-mentioned information (even copies or manuscripts are acceptable) shall be submitted.

If natural rubber or metal are used in a part that rarely contacts a human body and from which an allergic component is less likely to leak and to contact a human body for a long period of time, a document stating to that extent shall be submitted.

Statement example (natural rubber): "This product uses natural rubber. Depending on the constitution, itching, rashes, eruptions, and other symptoms may be caused. If any abnormality is felt, stop using the product."

Statement example (metal): "This product uses metal for ornament portions. Metal may cause itching, rashes, eruptions, and other symptoms depending on the constitution. If any abnormality is felt, stop using the product (base material: brass; surface finish: nickel chrome plated).

- (6) In any of the product proper, product tag, operating instructions, brochures, etc., the following a through d shall be stipulated.
- a. Name of each material (upper material, outsole, sock lining, etc.)
 - b. Maintenance method and storage method (in particular, for shoes with polyurethane used for outsole, stipulate “Polyurethane is used for the outsole. Polyurethane may be aged by moisture. Store in a well-ventilated location,” etc.)
 - c. Manufacturing date of shoes (where polyurethane is used for the outsole)
 - d. Stipulate one or more items of the following information including mandatory items in the vicinity of Eco Mark labeling so that the purport of being Eco-Mark-certified is identified (when Eco Mark is indicated).

<Mandatory items>

- Definition of eco-leather
(Ex. Eco-leather is leather material that satisfies the criteria of harmful substances, etc. concerning leather such as heavy metals, formaldehyde, carcinogenic dyestuff, etc., and is recognized to exert less impact on the environment.)

<Selective items>

- Durability
(Ex. Strength tests on peel strength and wear performance of outsoles are conducted.)
- Use of recycled material, etc.
(Ex. For outsoles, ○○ is used.)
- Establishment of repair system
(Ex. The repairing and accessories replacement system has been established.)

[Certification Procedure]

The applicable portions (copies or manuscripts are acceptable) that include the above-mentioned information shall be submitted

- (7) There shall be a contact section that can accept and respond to users' requests for repair, maintenance, and part replacement services or after-sales service, wherever possible. In addition, for repair,

maintenance, and part replacement services, for at least one year after discontinuance of production of applied products, the applicant must be able to repair the product at the request of users of the applied product, except for cases in which the services are not available due to aged deterioration or physical structural reason. In addition, the applicant must provide such information to users.

[Certification Procedure]

Applicable portions of product labels, product tags, operating instructions, brochures, etc. which provide users with the afore-mentioned information shall be submitted (copies or manuscripts are acceptable). For any product for which repair, maintenance, and part replacement services are not available, submit a document stating reasons thereof.

- (8) Plastic material used for the products and product packaging (in this section, resin as fibers is included) shall not use halogen elements for the polymer structure as prescription constituents. However, if halogen elements are used in products, 70% or more of plastic parts of used products shall be collected. Furthermore, 70% or more of the materials of the collected plastic parts shall be recycled.

[Certification Procedure]

For plastic material used for products and packaging, use or no-use of halogen elements for the polymer structure shall be indicated in the attached certificate form. If the halogen elements for the polymer structure are used, copies (manuscripts acceptable) of a document certifying that they shall be collected and recycled when they are disposed of, and a collection rate, and a rate of material recycling, and operating instructions, labels, catalogues, etc. describing a method of collection (a contact address of the applicant, a description that they will perform collection/recycling) shall be submitted. Additionally, after conclusion of a use agreement, the Eco Mark Office may request the applicant to report the collection rate (or conduct auditing) and the applicant must cooperate with them.

- (9) Products shall conform to items of at least 10 points in Appendix 1 "Environment-Conscious Design Checklist."

[Certification Procedure]

Compliance with this item shall be indicated in the Attached

Certificate. In addition, necessary information shall be filled out in Appendix 1 “Environment-Conscious Design Checklist” and submitted together with necessary documents.

- (10) In manufacturing the applied product, related environmental laws and regulations and pollution control agreement (hereinafter referred to as the “Environmental Laws, etc.”) must be followed with respect to air pollution, water contamination, noise, offensive odor, and emission of hazardous substances in the area where the plant performing the final manufacturing process is located.

In addition, the state of compliance with the Environmental Laws, etc. for the past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

[Certification Procedure]

With respect to the compliance with the Environmental Laws, etc. in the area where the plant performing the final manufacturing process is located, a certificate issued by the representative of the business of manufacturing the applied product or the relevant plant manager (entry or Appendix of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past five years, including a violation subject to administrative punishment or administrative guidance, and if there is, the following documents in a and b must be submitted:

- a. With respect to the fact of violation, guidance documents from administrative agencies (including order of correction and warning) and copies of written answers (including those reporting causes and results of correction) to such documents (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) concerning the management system for compliance with the Environmental Laws, etc. in 1)-5):
 - 1) List of the Environmental Laws, etc. related to the area where the plant is located;
 - 2) Implementation system (organizational chart with roles, etc.);

- 3) Bylaws stipulating retention of recording documents;
- 4) Recurrence prevention measures (future preventive measures);
- 5) State of implementation based on recurrence prevention measures (result of checking of the state of compliance, including the result of onsite inspection)..

4-1-2. Material Criteria and Certification Procedures

Each material for uppers, lining, and sock linings (products with no sock linings, insoles) shall satisfy the criteria concerning applicable material of the following A through D. However, surface areas in the relevant portion shall be totaled in descending order and the material that composes not less than 70% of the surface areas of the relevant portion shall be subject to the criteria. This shall not apply to small accessories such as buttons, strings, sewing thread, trimming, etc. Incidentally, to artificial leather and synthetic leather, the criteria concerning plastic material shall apply.

A. Leather material

- (11) Leather material shall be free of any abnormal smell such as mold, fish, petroleum, aromatic substance, etc. “To be free of any abnormal smell” means that the results of the odor test measured by a 5-grade functional panel method (German Industrial Standard DIN10955 or Swiss National Standard SNV195651) shall be grade 3 or lower.

[Certification Procedure]

Test results by a third-party test institute for the odor from leather material shall be submitted.

- (12) Color fastness shall conform to the reference value prescribed in Table 2. Incidentally, the upper leather shall undergo a drying test only, while lining, insole, or sock lining shall be subject to a drying test and a humidity cabinet test. However, in the event that no lining is provided for the upper leather, the flesh side shall be tested and follow the grade of grain-side drying test and humidity cabinet test.

Table 2 Color fastness criteria

	Drying test	Humidity test	Test method
Pigment-finish leather	Grade 3-4	Grade 2-3	ISO11640
Natural-finish deep color leather	Grade 2-3	Grade 2	
Natural-finish light-colored leather	Grade 3-4	Grade 2-3	
Natural unstained non-coated leather (natural-finish leather)	Grade 3-4	Grade 3-4	

[Certification Procedure]

Test results by a third-party test institution for color fastness of leather material shall be submitted. In addition, if leather materials are different only in colors although they have been processed in a same manner, they shall be tested for each color.

- (13) The elution of pentachlorophenol (PCP) from leather material shall conform to the reference values shown in Table 3 for each applicable product.

Table 3 Elution criteria of pentachlorophenol (PCP)

Substance name	Applicable products		Test method
	Newborns (under 36 months)	Adults (36 months or over)	
Pentachlorophenol (PCP)	Not more than 0.05 mg/kg	Not more than 0.5 mg/kg	DIN EN ISO 17070 IULTCS-IU C25 (reference) 67/548/EEC 76/769EEC* ¹ LMBG82-02-8*

*1... Council Directive relating to restrictions on the marketing and use of certain dangerous substances and preparations 76/769/EEC

*2... German restriction in some consumer goods

[Certification Procedure]

Test results by a third-party test institute with respect to elusion of pentachlorophenol (PCP) from leather material shall be submitted.

- (14) Leather material shall not have the dyestuff prescribed in Appendix 4 added as prescription constituent.

[Certification Procedure]

The certificate of dyeing issued by tanners for the dyestuff used for the leather material shall be attached.

- (15) The elution of heavy metals from leather material shall conform to reference values shown in Table 4 for each applicable product.

Table 4 Elution standard of heavy metals

Substance name	Applicable products		Test method
	Newborns (under 36 months)	Adults (36 months or over)	
Lead	Not more than 0.2 mg/kg	Not more than 0.8 mg/kg	ISO105E04 IULTCS DC(75) DIN38406(6/22/29) (reference) 2000/53/EC* ³

Cadmium	Not more than 0.1 mg/kg	Not more than 0.1 mg/kg	ISO105E04 IULTCS DC(75) DIN38406(22/29) (reference) 2000/53/EC
Mercury	Not more than 0.02 mg/kg	Not more than 0.02 mg/kg	ISO105E04 IULTCS DC(75) DIN38406(12/29) (reference) 2000/53/EC
Nickel	Not more than 1.0 mg/kg	Not more than 4.0 mg/kg	ISO105E04 IULTCS DC(75) DIN38406(22/29) (reference) 67/548/EEC ^{*4}
Cobalt	Not more than 1.0 mg/kg	Not more than 4.0 mg/kg	ISO105E04 IULTCS DC(75) DIN38406(22/29) (reference) 67/548/EEC
Hexavalent chromium	Not detected	Not detected	DIN54020 DIN53314 IULTCS-IUC18 (reference) 2000/53/EC
Total chromium	Not more than 50 mg/kg	Not more than 200 mg/kg	ISO105E04 IULTCS DC(75) DIN38406(10/22) IULTCS-IUC8

*3...Directive 2000/53/EC of the European Parliament and of the Council of 18 September 2000 on end-of-life vehicles

*4...Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

[Certification Procedure]

With respect to the elution of heavy metals from leather material, test results by a third-party test institute shall be submitted. In addition, if leather materials are different only in colors although they have been processed in a same manner (in a same process and with a same chemical), lead, cadmium, cobalt, and chrome that are associated with color materials shall be tested for each color.

- (16) The elusion of formaldehyde of leather material shall conform to the reference values of Table 5 for each target.

Table 5 Criteria of formaldehyde elusion

Substance name	Target			Test method
	Newborns (under 36 months)	Adult (skin contact*5)	Adult (others)	
Formaldehyde	Not more than 16 mg/kg	Not more than 75 mg/kg	Not more than 300 mg/kg	MHLW Ministerial Ordinance No. 34 DIN 17226

*5...Members directly coming in contact with a foot

[Certification Procedure]

Test results by a third-party test institute with respect to the elusion of formaldehyde of leather material shall be submitted.

B. Textile Material

- (17) In the color material used for textile material, the dyestuff prescribed in Appendix 5 shall not be added as prescription constituent ingredients. For textiles other than wool, chromium-based dyestuff shall not be added as prescription constituent ingredients.

[Certification Procedure]

A dyeing certificate issued by a plant manager of the plant where textile material is dyed shall be submitted.

- (18) For textile material, conduct a minimum required processing (mildew proof, fluorescent whitening, softening, hygienic, product bleaching) and give thoroughgoing consideration to prevent over-processing. In addition, do not use any processing agent whose safety to human body is doubtful. However, fur products shall conform to Ministerial Ordinance No. 34 of Ministry of Health, Labour, and Welfare on the processing using dieldrin and DTTB in addition to consideration to above-mentioned processing.

[Certification Procedure]

A certificate issued by the textile material manufacturer or the applicant shall be submitted. If the textile material was subject to any processing, report the kind of processing agents and the quantity consumed in accordance with the attached certificate form. For fur products, state presence or absence of dieldrin and DTTB-used processing, and if they were subject to any processing, explain the conformance to MHLW Ministerial Ordinance No. 34.

- (19) The formaldehyde elusion of the textile material shall conform to the reference value of Table 6 for each target.

Table 6 Criteria of formaldehyde elusion

Substance name	Target			Test method
	Newborns (under 36 months)	Adult (skin contact*6)	Adult (others)	
Formaldehyde	Not more than 16 mg/kg	Not more than 75 mg/kg	Not more than 300 mg/kg	MHLW Ministerial Ordinance No.

				34
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*6...Members directly coming in contact with a foot

[Certification Procedure]

Test results by a third-party test institute or in-house test results with respect to the elusion of formaldehyde of textile material shall be submitted.

C. Plastic material (including artificial leather and synthetic leather material)

- (20) Plastic additives such as plasticizers, colorants, stabilizers, lubricants, and others used for plastic material and harmful substances of recycled plastic material shall conform to the reference values of heavy metals of ISO 8124-3 (corresponding standard: 88/378/EEC EN71-3), or others.

[Certification Procedure]

For plastic additives and recycled plastic material, the results of elution tests of cadmium, lead, mercury, and hexavalent chromium prescribed in ISO 8124-3 (corresponding standard: 88/378/EEC EN71-3) or EA Notification No. 46, which were conducted by a third-party test institute, etc. shall be submitted. It is acceptable for the applicant to submit a certificate by plastic manufacturers or molders attesting that the material registered in the positive list prescribed by the industry's spontaneous criteria, etc. is used.

- (21) No specific chlorofluorocarbon (five kinds of CFC) set forth in Appendix 6, other CFCs, carbon tetrachloride, trichloroethane, and alternatives for chlorofluorocarbon (HCFC) shall be used when plastic material is manufactured.

[Certification Procedure]

A certificate issued by plastic material manufacturer shall be submitted.

D. Rubber material

- (22) Harmful substances of rubber material shall conform to the heavy metal reference values of ISO 8124-3 (corresponding standard: 88/378/EEC EN71-3), or others.

[Certification Procedure]

The results of elution tests of cadmium, lead, mercury, and hexavalent chromium prescribed in ISO 8124-3 (corresponding standard:

88/378/EEC EN71-3) or EA Notification No. 46, which were conducted by a third-party test institute, etc. shall be submitted. However, in the event that the product does not use any post-consumer material and any applicable heavy metal is not added for every raw material as prescription constituent ingredients, for the heavy metal, a document that can evidence the conformance to the criteria by rubber material manufacturer or the applicant may be submitted.

4-2. Quality Criteria and Certification Procedures

(23) With respect to the product quality, implement quality management on strength against cracking of outsoles or rupture of upper leather (tear strength, flexibility, etc.), strength of heels (fixing strength, impact strength, etc.), and the product quality conforms to industry or in-house quality criteria. “Safety shoes,” “antistatic shoes,” “chemical protection high boots,” and “work shoes for protection from radioactive contamination” shall conform to the applicable Japanese Industrial Standard.

[Certification Procedure]

The applicable quality standard and quality criteria shall be presented and a certificate that evidences the conformance to the standard and the criteria shall also be submitted. In addition, a certificate issued by a plant manager or a quality control manager of the plant where the product is manufactured shall be submitted stating that the quality control in the manufacturing stages is thoroughly implemented.

5. Product Classification, Indication and Others

Omitted.

December 1, 2008	Established (Version1.0)
April 20, 2010	Revised (Version1.1)
March 1, 2011	Revised (Version1.2)
November 30, 2015	Validity Period

The Certification Criteria for the Product Category will be revised when necessary.

Appendix 1 Environment-conscious design checklist

Purpose	No.	Requirements	Achieved	Points	Supporting material
Use of recycled material	1	Compounding ratio of recycled material, etc. in part of members (components) of the product satisfies any of the requirements of Appendix 2.	Yes/No	2 per member	See the following page. Textiles: entry table 143-13; plastic and rubber: any of entry tables 143-14 to 16; timber: entry tables 143-17 to 18, any of entry table 143-19, or entry table 143-20 through 22.
Reduction of VOC of adhesives	2	Adhesives used for sewing the upper shall be water-based or hot-melt adhesives. Or double-faced adhesive tape, etc. are used and no adhesives are used.	Yes/No	1	Enter the name of adhesives used for upper sewing in the following parentheses. ()
	3	Adhesives used for bonding the upper and the sole shall be water-based or hot-melt adhesives (2 points). Or, no adhesive is used for bonding the upper and the sole (3 points).	Yes/No	2 or 3	Enter the name of adhesives used for bonding the upper to the sole. ()
	4	All adhesives free of any addition of toluene and xylene shall be used.	Yes/No	2	Adhesive Conformance Certificate
Promotion of long-term use and easy maintenance	5	No polyester-based polyurethane shall be used for the out sole. In addition, when polyurethane is used for the out sole, ether-based polyurethane or polyurethane improved to prevent hydrolysis shall be used.	Yes/No	2	Enter the certificate for material used. In the case of using polyurethane improved prevent hydrolysis, data, etc. that evidence the improvement.
	6	In products in which no polyurethane is used, shoe manufacturing date is indicated in any of the product proper, product label, product tab, etc.	Yes/No	2	Applicable portion where manufacturing date is stipulated (copies and manuscripts are acceptable).
	7	The applicant shall be in the system to disclose information on manufacturing date and production area for each member of a shoe at the request of consumers, etc.	Yes/No	1	Documents that explain the information disclosure system.
	8	For the upper material, a plurality of different materials shall not be used (Ex. sole leather + PP trimming, etc.).	Yes/No	1	Color photograph of the product (to be attached to Eco Mark Product Certification/Use Application).
	9	The product shall have a construction that enables easy replacement of members of product, such as outsoles, heels, or heel plugs (excluding replacement of accessories).	Yes/No	3	Documents that specifically explain that the product has a construction easy to replace components.
	10	The product carries an indication encouraging users to wear shoes correctly or take care of them for lengthy life thereof (example: Try to take care of the shoes to increase the life.)	Yes/No	1	The indication a description of which can be checked
Resources saving	11	No ornamental components not related to functions such as stones, chains, beads, metal foils, etc. shall not be used.	Yes/No	1	Color photograph of the product (to be attached to Eco Mark Product Certification/Use Application).
	12	In the components of sole portions of the applied product, there are standardized components which are made by the same material and in the same shape, and used for other products (excluding accessories). Two points are given when the standardized other product is one article number and three points are given when the standardized other product is two or more article numbers.	Yes/No	2 or 3	Documents that specifically explain that the components of the sole of the applied product are standardized and are able to be used for other products.
	13	The paper material used for a one-pair shoebox contains not less than 70% recycled pulp compounding ratio.	Yes/No	1	None
	14	The paper material used for a one-pair shoebox does not undergo any processing unsuited for paper recycling after disposal, such as laminate coating, etc.	Yes/No	1	None

Appendix 2

Kind of material	Recycled material, etc.	Reference compounding ratio (mass%) in applicable members (components)
Textiles	Unused textiles, recycled refibrillated textiles, waste plant fiber	More than 10%
	Polymer recycled fibers, chemical recycled fibers	More than 40%
	Unbleached cotton, hydrogen peroxide bleached cotton, ozone bleached cotton, and no fluorescent brightener (see Appendix 3)	100%
	Organically grown cotton	100%
Plastics	Recycled plastics	More than 20%
Rubber	Recycled rubber	More than 20%
Timber	Lumber from thinning, waste wood, lower grade timber, waste plant fiber	100%

* In the event that recycled material is used for ground fabric of artificial leather and synthetic leather, the reference compound ratio of textiles shall apply.

Appendix 3 List of chemicals that can be used for finishing process.

In the case of hydrogen peroxide bleaching (refining and bleaching are conducted in the same process)	
<Process>	<Chemicals allowed to be used>
Starch removal	Boiling water, citric acid, acetic acid, salt, enzyme (protease, lipase, amylase, cellulase, etc.), low-impact and biodegradable anionic, cationic, nonionic active agents, sodium gluconate, other organic chelating agents
Refining and bleaching	Boiling water, enzyme (protease, lipase, amylase, cellulase, etc.), citric acid, acetic acid, low-impact and biodegradable anionic, cationic, nonionic active agents, sodium gluconate, other organic chelating agents, soda ash, not more than 1.5% (as purity content) hydrogen peroxide. However, they must be removed by enzyme or boiling water, citric acid, and acetic acid and no residue shall be left on the final textile.
In the case of non-bleaching (refining and bleaching are conducted in separate process)	
<Process>	<Chemicals allowed to be used>
Starch removal	Not specified
Refining (no bleaching conducted)	Boiling water, enzyme (protease, lipase, amylase, cellulase, etc.), citric acid, acetic acid, low-impact and biodegradable anionic, cationic, nonionic active agents, sodium gluconate, other organic chelating agents

[Certification Procedure]

Submit a certificate stipulating the mass ratio of recycled material, etc. in the relevant members (components) and the following material certificate for recycled material, etc.

In the event that the material is textile, attach the material certificate issued by a spinning company. For non-bleaching, hydrogen peroxide bleaching, and ozone bleaching, report the chemicals used. To organically grown cotton, attach a certificate issued by an eligible institute of cotton production district and the invoice, packing list or delivery notice issued at the time of transaction.

In the event that the material is plastics or rubber, submit the material certificate issued by recycled material producers (recycled material collection traders, etc.).

In the event that the material is timber, submit the material certificate that states that the relevant material falls under any of recycled or unused timber or waste plant fibers, which is issued by material producers (timber producers, etc.). However, in the event that the number of material producers exceed 10 companies, it is allowed to submit the certificates of companies of top-ten material transaction volume.

In the event that timber from thinning is used for material, submit the certificate of production region which stipulates the production region, kind of trees, quantity, and planting year as well as photographs of applicable forest units (that indicate thinning has been carried out). Include thinning ratio, how many times of thinning, and other information as much as possible.

In the event that lower grade timber is used for material, submit a certificate that stipulates the following:

- Kind of forest (naturally regenerated forest, planted forest, etc.), producing region, and kind of trees. In the case of a planted forest, stipulate the planting year, too.
- Under what conditions (timber damaged by disease and insect pest, disaster-struck, bent or small-diameter, etc.) the timber was produced. With respect to small-diameter timber, report the forest

management operation method, small end diameter, etc.

In addition to this, in the event that the product falls under paragraph a or b prescribed by the definitions of terms of lower grade timber, submit documents that the forest was certified by a third party as a sustainable forest. The relevant forest certificate shall satisfy the requirements of the table below.

Table Forest certification

Certification criteria	Certification shall keep balance between ecological and social benefits, agree to Agenda 21 and the Declaration of Forest Principle, and observe related international agreements and treaties.
	Certification shall contain definite requirements and shall promote and be oriented to sustainable forest.
	Certification shall be nationally or internationally recognized and shall be recommended as part of an open process to which ecological, economic, and social interested parties can participate.
Certification system	The certification system shall provide high transparency, maintain extensive national or international reliability, and enable the verification of requirements.
Certification organization and association	Certification organization and association shall be highly impartial and reliable, allow them to be verified as to whether or not they satisfy requirements, report the verification results, and be able to effectively implement requirements.

In addition, if of the lower-grade timber, bamboo is used for material, submit a certificate stipulating the following, photographs or a map of the vicinity of the bamboo grove.

- Kind of bamboo, producing district, surrounding conditions, explanation that it is the felling for appropriate maintenance management for environmental preservation, management plan, and

quantity.

In the case of any material which uses an Eco-Mark-certified product as an intermediate product, stipulating “brand name,” “certification No.,” and “type” of the relevant intermediate product in an attached certification form can be substituted for a material certificate.

Appendix 4

List of banned dyestuff (leather)

- [1] Azo dyestuff that may decompose and generate the following carcinogenic aromatic amines (one or more following amines are detected at exceeding 30 mg per 1 kg of product by the analysis method prescribed by the collection of testing procedures containing all the Official Test Methods pursuant to Article 35 of the German Food and Consumer Goods Law).

92-67-1	4-Aminobiphenyl	C1(EU),1(NTP,IARC)
92-87-5	Benzidine	C1(EU),1(NTP,IARC)
95-69-2	4-Chloro-o-toluidine	2A(NTP,IARC)
91-59-8	2-Naphthylamine	C1(EU),1(NTP,IARC)
97-56-3	o-Aminoazotoluene	C2(EU), 2B(NTP,IARC)
99-55-8	2-Amino-4-nitrotoluene	3(NTP,IARC)
106-47-8	4-Chloroaniline	C2(EU), 2B(NTP,IARC)
615-05-4	2,4-Diaminoanisole	2B(NTP,IARC)
101-77-9	4,4'-Diaminodiphenylmethane	C2(EU), 2B(NTP,IARC)
91-94-1	3,3'-Dichlorbenzidine	C2(EU), 2B(NTP,IARC)
119-90-4	o-Dianisidine; 3,3'-Dimethoxybenzidine	C2(EU), 2B(NTP,IARC)
119-93-7	o-Tolidine; 3,3'-Dimethylbenzidine	C2(EU), 2B(NTP,IARC)
838-88-0	4,4'-Diamino-3,3'-dimethyldiphenylmet hane	C2(EU), 2B(NTP,IARC)
120-71-8	p-Cresidine	2B(NTP,IARC)
101-14-4	4,4'-Diamino-3,3'-dichlorodiphenylmet hane	C2(EU), 2A(NTP,IARC)
101-80-4	4,4'-Diaminodiphenyl ether	2B(NTP,IARC)
139-65-1	4,4'-Diaminodiphenyl sulfide	2B(NTP,IARC)
95-53-4	o-Toluidine	C2(EU), 2B(NTP,IARC)
95-80-7	2,4-Diaminotoluene	C2(EU), 2B(NTP,IARC)
137-17-7	2,4,5-Trimethylaniline	
90-04-0	o-Anisidine	C2(EU), 2B(NTP,IARC)
60-09-3	4-Aminoazobenzene	C2(EU)

- [2] 5 kinds of carcinogenic dyestuff

569-61-9	C.I. BASIC RED 9	CI 42500	C2(EU), 2B(NTP,IARC), Oeko-Tex
3761-53-3	C.I. ACID RED 26	CI 16150	2B(NTP,IARC), Oeko-Tex
6459-94-5	C.I. ACID RED 114	CI 23635	2B(NTP,IARC)
2602-46-2	C.I. DIRECT BLUE 6	CI 22610	C2,R3(EU),2A(NTP,IAR C), Oeko-Tex
1937-37-7	C.I. DIRECT BLACK 38	CI 30235	C2,R3(EU), 2A(NTP,IARC), Oeko-Tex

Reference: International Agency for Research on
Cancer (IARC)

National Toxicology Program (NTP)
EU Directive 76/769/EC
EU Directive 2002/61/EC
Ecological and Toxicological Association
of Dyes and Organic Pigments
Manufacturers (ETAD)
Oeko-Tex Standard 100

Appendix 5

List of banned dyestuff (textiles)

- [1] Azo dyestuff that may decompose and generate the following carcinogenic aromatic amines (one or more following amines are detected at exceeding 30 mg per 1 kg of product by the analysis method prescribed by the collection of testing procedures containing all the Official Test Methods pursuant to Article 35 of the German Food and Consumer Goods Law).

Carcinogenicity rank (A1)		
92-67-1	4-Aminobiphenyl	C1(EU),1(NTP,IARC)
92-87-5	Benzidine	C1(EU),1(NTP,IARC)
95-69-2	4-Chloro-o-toluidine	2A(NTP,IARC)
91-59-8	2-Naphthylamine	C1(EU),1(NTP,IARC)
Carcinogenicity rank (A2)		
97-56-3	o-Aminoazotoluene	C2(EU), 2B(NTP,IARC)
99-55-8	2-Amino-4-nitrotoluene	3(NTP,IARC)
106-47-8	4-Chloroaniline	C2(EU), 2B(NTP,IARC)
615-05-4	2,4-Diaminoanisole	2B(NTP,IARC)
101-77-9	4,4'-Diaminodiphenylmethane	C2(EU), 2B(NTP,IARC)
91-94-1	3,3'-Dichlorbenzidine	C2(EU), 2B(NTP,IARC)
119-90-4	o-Dianisidine; 3,3'-Dimethoxybenzidine	C2(EU), 2B(NTP,IARC)
119-93-7	o-Tolidine; 3,3'-Dimethylbenzidine	C2(EU), 2B(NTP,IARC)
838-88-0	4,4'-Diamino-3,3'-dimethyldiphenylmethane	C2(EU), 2B(NTP,IARC)
120-71-8	p-Cresidine	2B(NTP,IARC)
101-14-4	4,4'-Diamino-3,3'-dichlorodiphenylmethane	C2(EU), 2A(NTP,IARC)
101-80-4	4,4'-Diaminodiphenyl ether	2B(NTP,IARC)
139-65-1	4,4'-Diaminodiphenyl sulfide	2B(NTP,IARC)
95-53-4	o-Toluidine	C2(EU), 2B(NTP,IARC)
95-80-7	2,4-Diaminotoluene	C2(EU), 2B(NTP,IARC)
137-17-7	2,4,5-Trimethylaniline	
90-04-0	o-Anisidine	C2(EU), 2B(NTP,IARC)
95-68-1	2,4-Xylidine	3(NTP,IARC)
87-62-7	2,6-Xylidine	2B(NTP,IARC)
60-09-3	4-Aminoazobenzene	C2(EU)

- [2] Carcinogenic dyestuff

569-61-9	C.I. BASIC RED 9	CI 42500	C2(EU), 2B(NTP,IARC), Oeko-Tex
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500	C2(EU), 2B(NTP,IARC), Oeko-Tex
3761-53-3	C.I. ACID RED 26	CI 16150	2B(NTP,IARC), Oeko-Tex
6459-94-5	C.I. ACID RED 114	CI 23635	2B(NTP,IARC)
2602-46-2	C.I. DIRECT BLUE 6	CI 22610	C2,R3(EU),2A(NTP,IARC), Oeko-Tex
1937-37-7	C.I. DIRECT BLACK 38	CI 30235	C2,R3(EU), 2A(NTP,IARC), Oeko-Tex
573-58-0	C.I. DIRECT RED 28	CI 22120	C2,R3(EU) , Oeko-Tex
2932-40-8	C.I. DISPERSE YELLOW 3	CI 11855	Oeko-Tex

- [3] dyestuff causing skin sensitization

2475-46-9	C.I. DISPERSE BLUE 3	CI 61505	ETAD, Oeko-Tex
12222-75-2	C.I. DISPERSE BLUE 35		ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 106		ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 124		ETAD, Oeko-Tex
2832-40-8	C.I. DISPERSE YELLOW 3	CI 11855	ETAD, Oeko-Tex

730-40-5	C.I. DISPERSE ORANGE 3	CI 11005	ETAD, Oeko-Tex
	C.I. DISPERSE ORANGE 37		ETAD, Oeko-Tex
2872-52-8	C.I. DISPERSE RED 1	CI 11110	ETAD, Oeko-Tex
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500	Oeko-Tex
3179-90-6	C.I. DISPERSE BLUE 7	CI 62500	Oeko-Tex
3860-63-7	C.I. DISPERSE BLUE 26	CI 63305	Oeko-Tex
	C.I. DISPERSE BLUE 102		Oeko-Tex
	C.I. DISPERSE ORANGE 1	CI 11080	Oeko-Tex
	C.I. DISPERSE ORANGE 76		Oeko-Tex
2872-48-2	C.I. DISPERSE RED 11	CI 62015	Oeko-Tex
	C.I. DISPERSE RED 17	CI 11210	Oeko-Tex
119-15-3	C.I. DISPERSE YELLOW 1	CI 10345	Oeko-Tex
	C.I. DISPERSE YELLOW 9	CI 10375	Oeko-Tex
	C.I. DISPERSE YELLOW 39		Oeko-Tex
	C.I. DISPERSE YELLOW 49		Oeko-Tex

Reference: International Agency for Research on Cancer (IARC)

National Toxicology Program (NTP)
 EU Directive 76/769/EC
 EU Directive 2002/61/EC
 Ecological and Toxicological Association
 of Dyes and Organic Pigments
 Manufacturers (ETAD)
 Oeko-Tex Standard 100

Appendix 6

CFC5s	Trichlorofluoromethane
	Dichlorodifluoromethane
	Trichlorotrifluoroethane
	Dichlorotetrafluoroethane
	Chloropentafluoroethane
Other CFCs	Chlorotrifluoromethane
	Pentachlorofluoromethane
	Tetrachlorodifluoroethane
	Heptachlorofluoropropane
	Hexachlorodifluoropropane
	Pentachlorotrifluoropropane
	Tetrachlorotetrafluoropropane
	Trichloropentafluoropropane
Dichlorohexafluoropropane	
Chlorohexafluoropropane	
	Carbon Tetrachloride
	1,1,1-Trichloroethane
HCFCs	Dichlorofluoromethane
	Chlorodifluoromethane
	Chlorofluoroethane
	Tetrachlorofluoroethane
	Trichlorodifluoroethane
	Dichlorotrifluoroethane
	Chlorotetrafluoroethane
	Trichlorofluoroethane
	Dichlorodifluoroethane
	Chlorotrifluoroethane
	Dichlorofluoroethane
	Chlorodifluoroethane
	Chlorofluoroethane
	Hexachlorofluoropropane
	Pentachlorodifluoropropane
	Tetrachlorotrifluoropropane
	Trichlorotetrafluoropropane
	Dichloropentafluoropropane
	Chlorohexafluoropropane
	Pentachlorofluoropropane
	Tetrachlorodifluoropropane
	Trichlorotrifluoropropane
	Dichlorotetrafluoropropane
	Chloropentafluoropropane
	Tetrachlorofluoropropane
	Trichlorodifluoropropane
	Dichlorotrifluoropropane
	Chlorotetrafluoropropane
	Trichlorofluoropropane
	Dichlorodifluoropropane
	Chlorotrifluoropropane
	Dichlorofluoropropane
Chlorodifluoropropane	
Chlorofluoropropane	

Appendix 7 Classification of applicable products (according to standard commodity classification for Japan)

Medium	Commodity item name					Classification A through C in Eco Mark Product Category No. 143 "Shoes and Footwear"	
80. Footwear	801 Leather shoes (excluding sports shoes)	8011 General leather shoes	80111 Men's leather shoes	801111 Full leather shoes		A Things are Category C	
				801112 Shoes with leather uppers and other material soles			
				801119 Other men's leather shoes			
			80112 Women's leather shoes	801121 Full leather shoes			
				801122 Shoes with leather uppers and other material soles			
				801129 Other women's leather shoes			
			80113 Babies and children leather shoes	801131 Children leather shoes	8011311 Full leather shoes		
					8011312 Shoes with leather uppers and other material soles		
					8011319 Other children leather shoes		
				801132 Babies shoes (size ranges from 10.5 to 14)	8011321 Full leather shoes		
					8011322 Shoes with leather uppers and other material soles		
					8011329 Other babies leather shoes		
			80119 Other general leather shoes				
			8012 Work leather	80121 Full leather shoes			

		shoes	80122 Shoes with leather uppers and other material soles			
			80129 Other work leather shoes			
		8019 Other leather shoes (excluding sports shoes)				
	802 Rubber footwear (size is same as leather shoes except full-rubber flip-flops and thongs. Excluding sports shoes)	8021 Workman's split-toed heavy-cloth shoes				C
		8022 rubber-soled cloth shoes	80221 General rubber-soled heavy-cloth shoes			B
			80229 Other rubber-soled heavy-cloth shoes			
		8023 Full rubber shoes	80231 High boots and rainboots			
			80232 Low quarter shoes and slipons			
			80239 Other full rubber shoes			
		8024 Full rubber flip-flops and thongs	80241 Full-rubber flip-flops			C
			80242 Full-rubber thongs			
		8029 Other rubber footwear (size is same as leather shoes except full-rubber flip-flops and thongs. Excluding sports shoes)				B
	803 Plastic footwear (excluding sports shoes)	8031 Plastic footwear (paste type)	80311 General plastic shoes (size is same as leather shoes)	803111 Men's shoes	8031111 Full-plastic shoes	
					8031112 Shoes with plastic uppers and other material soles	
					8031119 Other men's shows	

				803112 Women's shoes	8031121 Full-plastic shoes	
					8031122 Shoes with plastic uppers and other material soles	
					8031129 Other women's shoes	
				803113 Babies and children shoes	8031131 Full-plastic shoes	
					8031132 Shoes with plastic uppers and other material soles	
					8031139 Other babies and children shoes	
			80312 Plastic thong			C
			80319 Other plastic footwear (paste type)			
		8032 Plastic footwear (injection molding type)	80321 Shoes with plastic soles and cloth uppers (size is same as leather shoes)	803211 General shoes		
				803219 Other shoes with plastic soles and cloth uppers		
			80322 Shoes with plastic soles and plastic uppers (size is same as leather shoes)	803221 General shoes		
				803229 Other shoes with plastic soles and plastic uppers		
			80323 Full-plastic shoes	803231 High boots and rainboots		
				803232 Low quarter shoes and slipons		
				803233 Other plastic shoes		
			80329 Other plastic footwear (injection molding type)			
		8039 Other plastic footwear (excluding sport shoes)				

804 Sport shoes	8041 Spike shoes and similarly regarded shoes	80411 Athletic sport shoes			A or B
		80412 Golf shoes			
		80413 Baseball shoes			
		80414 Rugby shoes			
		80415 Soccer shoes			
		80416 Football shoes			
		80419 Other spike shoes and similarly regarded shoes			
		8042 Flat-soled sport shoes	80421 Volleyball shoes		
	80422 Basketball shoes				
	80423 Tennis shoes				
	80424 Bowling shoes				
	80425 Dance shoes				
	80426 Sailing shoes				
	80427 Gateball shoes				
	80428 Gym shoes				
	80429 Other flat-soled sport shoes				
	8043 Special sport shoes		80431 Ice skates		
		80432 Roller skates			
		80433 Ski boots			
		80434 Mountain climbing shoes			
80435 Riding boots					
80439 Other special sport shoes					
8049 Other sport shoes					
805 Japanese footwear	8051 Getas (wooden clogs)	80511 Men's wooden clogs			C
		80512 Women's wooden clogs			
		80513 Children's wooden clogs			

			80519 Other wooden clogs			C
	8052 Japanese sandals		80521 Men's Japanese sandals			
			80522 Women's Japanese sandals			
			80523 Children's Japanese sandals			
			80529 Other Japanese sandals			
		8059 Other Japanese footwear				
	806 Home flip-flops (excluding rubber flip-flops)					
	809 Other footwear					